ALR -M1 ALARM DEVICE

Modbus register map





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MODBUS REGISTER MAP

| INPU | INPUT REGISTERS | | | | | | | |
|-----------|---|---------------------|--------------------------------|----------------|--|--|--|--|
| | | Data type | Description | Raw data range | Values | | | |
| 1 | Operation status | unsigned integer | Operation status | 0-3 | 0 = OK (green LED is ON) 1 = Warning (yellow LED is ON) 2 = Alarm (red LED and buzzer are ON) 3 = Custom (direct LED and buzzer driving is allowed) | | | |
| 2 | Green LED | unsigned integer | Green LED status | 0, 1 | 0 = OFF 1 = ON | | | |
| 3 | Yellow LED | unsigned integer | Yellow LED status | 0, 1 | 0 = OFF 1 = ON | | | |
| 4 | Red LED | unsigned integer | Red LED status | 0, 1 | 0 = OFF 1 = ON | | | |
| 5 | Sound active | unsigned integer | Buzzer status | 0, 1 | 0 = OFF 1 = ON | | | |
| 6 | Sound mode | unsigned integer | Pulsed / continuous sound mode | 0, 1 | 0 = Pulsed 1 = Continuous | | | |
| 7—10 | | | Reserved, return 0 | | | | | |
| Note: The | Note: The input registers can be read via the Modbus command: "Read input registers". | | | | | | | |

| HOLDING REGISTERS | | | | | | | | | |
|-------------------|-----|--|---------------------|--------------------------------|----------------|---|---|-------------|------------------------------|
| | | | Data type | Description | Raw data range | Values | | | Factory default values |
| 1 | | | unsigned integer | Modbus device address | 1—247 | | | | 1 |
| 2 | Mod | | unsigned integer | Modbus communication baud rate | 0—6 | $\begin{array}{rcl} 0 &=& 4.800 \\ 1 &=& 9.600 \\ 2 &=& 19.200 \end{array}$ | 3 = 38.400 4 = 57.600 5 = 115.200 | 6 = 230.400 | 2 |



| HOLDING REGISTERS | | | | | | | | |
|-------------------|--------------------------|---------------------|---|----------------|------------|--|------------------------------|--|
| | | Data type | Description | Raw data range | Values | | Factory default values | |
| 3 | Modbus parity | unsigned integer | Parity check mode | 0—2 | 1 = | 8N1 8E1 8O1 | 1 | |
| 4 | Device type | unsigned integer | Device type. Read only | 2.200 | 2.200= | ALR-M | | |
| 5 | HW version | unsigned integer | Hardware version of the device. Read only | xxxx | 0x0100 = | HW version 1.0 | | |
| 6 | FW version | unsigned integer | Firmware version of the device, read only | xxxx | 0x0100 = | FW version 1.0 | | |
| 7—10 | | | Reserved, return 0 | | | | | |
| 11 | Operating mode | unsigned integer | Operation status | 0—3 | 1 = 2 = | OK (green LED is ON) Warning (yellow LED is ON) Alarm (red LED and buzzer are ON) Custom - next 4 registers are allowed | 0 | |
| 12 | Green LED | unsigned integer | Direct control green LED (allowed in Custom operating mode only) | 0, 1 | | OFF ON | 0 | |
| 13 | Yellow LED | unsigned integer | Direct control yellow LED (allowed in Custom operating mode only) | 0, 1 | | OFF ON | 0 | |
| 14 | Red LED | unsigned integer | Direct control red LED (allowed in Custom operating mode only) | 0, 1 | | OFF ON | 0 | |
| 15 | Buzzer Operating mode | unsigned integer | Buzzer control (allowed in Custom operating mode only) | 0, 1 | | OFF ON | 0 | |
| 16 | Sound mode | unsigned integer | Pulsed / continuous sound | 0, 1 | | Pulsed Continuous | 0 | |
| 17 | Start-up action | unsigned integer | Indication on start up | 0, 1 | | Nothing All LEDs lighting for 1 s | 1 | |



| HOLDING REGISTERS | | | | | | | |
|---|--|--|--|--|--|--|--|
| Factory default values | | | | | | | |
| | | | | | | | |
| 0 | | | | | | | |
| 0 | | | | | | | |
| Note: The holding registers can be managed via the following Modbus commands: "Read Holding Registers", "Write Single Registers" or "Write Multiple Registers". | | | | | | | |
| The free Sentera configuration and monitoring software 35Modbus can be downloaded via: https://www.sentera.eu/en/35MCenter | | | | | | | |
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